

Claims for Escape-Right

We claim,

1) (once revised) An emergency escape system comprising:

- (a) a passenger harness,
- (b) a cable detachably attached to the harness,
- (c) a reel connected to the cable for storage of the cable,
- (d) a shaft attached to the reel permitting rotation of the reel as the cable is unrolled from the reel,
- (e) a reduction gear assembly fixed to the shaft to multiply the reel rotation rate,
- (f) a centrifugal brake assembly attached to the reduction gear assembly,
- (g) a housing enclosing the brake assembly,
- (h) a mounting means fixing the housing to a point of support.

2) (Original) The emergency escape system of claim 1 wherein the mounting means is configured to attach to a prepared mounting point within a building or dwelling structure.

3) (Original) The emergency escape system of claim 1 wherein the mounting means is configured to attach to the top of a ladder positioned near an egress port of a building or dwelling structure.

4) (Original) The emergency escape system of claim 1 wherein the cable includes flexible attachment points spaced to accommodate multiple descents without rewinding the cable on the reel.

5) (Original) The emergency escape system of claim 1 wherein the shaft is detachably attached to the reel.

6) (once revised) An emergency escape system comprising:

- (a) a passenger harness,
- (b) a cable connecting to the mounting means,
- (c) a reel connected to the cable for storage of the cable,
- (d) a shaft fixed to the reel permitting rotation of the reel as the cable is unrolled from the reel,
- (e) a reduction gear assembly fixed to the shaft to multiply the reel rotation rate,
- (f) a centrifugal brake assembly attached to the reduction gear assembly,
- (g) a housing enclosing the brake assembly,
- (h) a mounting means fixing the housing to the passenger harness.

7) (Original) The emergency escape system of claim 6 wherein the mounting means is configured to attach to a prepared mounting point within a building or dwelling structure.

8) (Original) The emergency escape system of claim 1 wherein the mounting means is configured to attach to the top of a ladder positioned near an egress port of a building or dwelling structure.

9) (once revised) The escape system of claim 1 wherein the centrifugal brake assembly comprises:

- (a) a circular casing,
- (b) a circular central plate with a plurality of tabs,
- (c) a plurality of brake shoes fitted over the plurality of tabs,
- (d) a shaft connecting the central disk and piercing the casing at the center of the circular cross section of the casing to connect to an external source of rotary motion.

10) (once revised) The emergency escape system of claim 9 wherein the plurality of tabs and brake shoes consists of two tabs and two brake shoes.